

Notice of Allowability

Application No.

09/701,611

Examiner

Sam Rimell

Applicant(s)

NIVELET, BERNARD

Art Unit

2165

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Interview of 3/22/05.
2. ☒ The allowed claim(s) is/are 35-46 and 53.
3. ☒ The drawings filed on 06 October 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

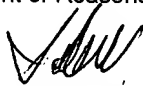
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


Sam Rimell
Primary Examiner
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Examiner's Amendment

42 (Examiner's Amendment) A method for searching records in at least one first data table in response to a given query from a decision application server, the first data table having plain text- data including words, the method comprising the steps of:

receiving the given query having plain-text predicates for searching records in the first table,

transforming the given query, in accordance with a nomenclature which is based on and was created subsequent to [an] a prior analysis of [the] said records, into an encoded query having numerically encoded predicates,

processing the encoded query in connection with at least one second data table, the second data table having numerical data encoded so as to maintain an ordinal relationship among the words in the plain-text data, wherein the numerical data is encoded in accordance with the nomenclature.

Reasons for Allowance

Claims 35-46 and 53 are pending. Claims 35, 41 and 53 are independent. Claims 36-40 and 42-46 are dependent. The closest prior art are the references to Depledge et al. (U.S. Patent 5,899,988) and the IBM Technical Disclosure Bulletin NA8910305 entitled "Query Processing with Existing Vector Machine Features", hereafter referred to as "IBM document".

Claim 35: Claim 35 is addressed to a method for pre-conditioning one or more data tables of a decision application server in a search system, where the tables are processed by a search engine. It includes the steps of analyzing records in fields of records and creating a

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nomenclature of the predicates based on and subsequent to the analysis of the field of records. This differs from Depledge et al. in which the nomenclature is direct bitmapping of predicates. A bitmapping nomenclature converts the presence of a predicate to a numerical value "1", while non-presence of a predicate creates a numerical value "0". This nomenclature is always the same, and is not itself based on the analysis of the records. The same nomenclature is applied in every analysis. Similarly in the IBM document, the nomenclature is conversion of text to numerical vector arrays. The conversion process itself is not based upon an analysis of records. Accordingly, claim 35 overcomes Depledge et al. and the IBM document.

Claim 41: Claim 41 is addressed to a method for searching records in a data table in response to a query from a decision application server. It includes the steps of receiving a query having plain text predicates for searching records in the table and transforming the query in accordance with a nomenclature which is based on created subsequent to a prior analysis of said records. In Depledge et al., the nomenclature is always the same, and is not itself based upon an analysis of the records. In the IBM document, the conversion process itself is not based upon an analysis of the records. Accordingly, claim 41 overcomes Depledge et al. and the IBM document.

Claim 53: Claim 53 is addressed to a method for pre-conditioning one or more data tables of a decision application server in a search system, where the tables are processed by a search engine. It includes the steps of analyzing predicates of text and a collating sequence and creating a nomenclature based on and subsequent to the analysis of the predicates according to the collating sequence. In Depledge et al., the nomenclature is always the same, and is not itself based upon an analysis of the text in a collating sequence. In the IBM document, the conversion

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process itself is not based upon an analysis of the text in a collating sequence. Accordingly, claim 53 overcomes Depledge et al. and the IBM document.

Claims 35, 41 and 53 are therefore allowable. Claims 36-40 and 42-46 are dependent therefrom and allowable.



SAM RIMELL
PRIMARY EXAMINER